

2  $\stackrel{\sim}{}$ LIQUID-TIGHT JOINT LIQUID-TIGHT JOINT OPTIONS NON-METALIC WATERSTOP (PVC) HYDROPHILIC WATERSTOP YES. 8

= CONSTRUCTION JOINT



## CONSTRUCTION JOINT OPTIONS

WAL

CORNER DETAIL

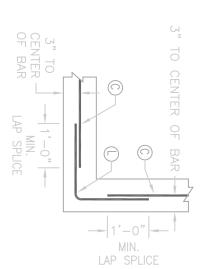
(PLAN VIEW)

Date

<u>06/23/0</u>5

- . IF SLAB AND WALL ARE POURED SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT OF NEW CONCRETE.
- THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.

2



SLAB CORNER DETAILS RESTRAINING SLAB **OPTIONS** 

SEE PA-023 SEE PA-024

## GENERAL DESIGN NOTES:

- \*DRAINAGE SHALL BE AWAY FROM THE WALL.

  \*THE MINIMUM WIDTH OF THE BACKFILL AGAINST THE WALL
  THE BACKFILL HEIGHT. SHALL BE EQUAL TO OR GREATER THAN
- ·MAXIMUM FOOTING CONTACT PRESSURE IS 610 psf/ft.

DESIGN STRENGTHS: WORKING STRESS DESIGN  $_{0}$ 

· CONCRETE  $f_{c} = 4,000 \text{ psi}$  $f_S = 20,000 \text{ psi}$ (GRADE

40)

WALL DESIGN LOADING: 313 STANDARD — LATERAL EARTH PRESSURE VALUES, SEE SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE.

\*MANURE LOAD INSIDE = 65 psf/ft.

\*SOIL BACKFILL LOAD OUTSIDE = 75 psf/ft.

\*NO SURCHARGE LOAD

\*SOIL BACKFILL DENSITY = 110 pcf.

\*WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

• CONCRETE SHALL MEET PA 313 OR 561 SPECIFICATION REQUIREMENTS. • SUBSTITUTION OF GRADE 60 BARS IS PERMITTED. • MINIMUM SPLICE LENGTH FOR MARK (B) AND (C) BARS IS 12"

STEEL #4 CONCRETE

(0.668 LBS./FT)

(0.1543 CU.YDS./LIN.FT.) ESTIMATED QUANTITIES

CU. YDS.

· STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.

## WALL RESTRAINT REQUIREMENTS: .5" THICK SLAB, SAFETY FACTOR

MARK

QUAN

TYPE

W

S

TOTAL LENGTH

6, – 8 LENGTH

TOTAL LENGTH OF

WALL

SCHEDULE

4

STR STR

#4 BARS,

TOTAL LENGTH

TYPE 2 BAR

NOTES:

DIMENSIONS ARE TO THE REINFORCING BAR SURFACE UNLESS OTHERWISE NOTED.

BACKFILL OF 2 FEET IS RECOMMENDED FOR FROST PROTECTION.

AGAINST SLIDING 1.5 MIN.

NO SLABB	3 FEET NO SLAB NO SLAB	2 FEET 1 FOOT 0 FEET
1 1(0	SLAB LENGTH NO INSIDE LOAD	BACKFILL HEIGHT (OUTSIDE LOAD)

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURAL, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WI. 53717-2906

ADAPTED FROM WI-531, APRIL 2005)

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PA-019B PA-019B Drawing No. 07/06/07 12:45



COUNTY, PENNSYLVANIA

3' HIGH, 6" L-WALL (W/O SURCHARGE)